## IN THE CLAIMS:

In accordance with the Revised Rules under 37 C.F.R. 1.121, please amend the claims as shown below and indicated as "currently amended." Also shown below are claims that may be indicated as original, previously amended, cancelled, withdrawn, previously added, new, reinstated, previously reinstated, or re-presented. In accordance with the Rules, the text of cancelled or withdrawn claims need not be presented.

1. (currently amended)

A bumper for mounting on a frame of a vehicle, the bumper

comprising:

an elongated beam configured to be operatively mounted to the frame of the vehicle;

a foam portion extending/along a portion of the beam;

a fascia surrounding the foam portion, the fascia and the foam portion operatively attached to the beam;

the foam portion having at least one recess formed therein, the at least one recess extending through a predetermined thickness of an inside portion of the foam portion, the at least one recess abutting a portion of the ongated beam; and

a non-metallic circular cell matrix disposed in and supported by the at least one recess, and configured to absorb energy resulting from impact force applied to an external portion of the bumper, the cell matrix configured to be removeably replaced upon separation of the foam portion from the beam to expose the at least one recess thereby allowing removal and replacement of the non-metallic circular cell matrix through an open end of the exposed recess.

- 2. (original) The bumper according to claim 1 wherein the matrix forms an interference fit with the recess.
- 3. (original) The bumper according to claim 1 wherein the matrix is secured within the recess with chemical adhesive.
  - 4. (deleted, without prejudice.)
- The bumper according to claim 1 wherein the recess extends through the foam 5. (original) for the predetermined distance of about between forty percent to eight-five percent of a thickness of





the foam portion.

- 6. (original) The bumper according to claim 1 wherein the recess extends through the foam portion for the predetermined distance of about between sixty percent to ninety percent of a thickness of the foam portion.
- 7. (previously amended) The bumper according to claim 1 wherein a front portion of the matrix located proximate the elongated beam is substantially flush with a front portion of the foam portion along an interface defined between the beam and the foam portion.
- 8. (original) The bumper according to claim 1 wherein the foam portion is formed of low-density foam.
- 9. (original) The bumper according to claim 8 wherein the low-density foam has a density of about between two pounds per cubic foot and eight pounds per cubit foot.
- 10. (original) The bumper according to claim 1 further including a high-density panel disposed within the recess, the high-density panel disposed in front of the matrix and configured to distribute impact force directed against the bumper across a portion of the matrix.
- 11. (original) The bumper according to claim 1 wherein the matrix is sandwiched between a plurality of high-density panels, said matrix and high-density panels retained within the recess.
- 12. (previously amended) The bumper according to claim 10 wherein the high-density panel is selected from the group consisting of high-density foam, high-molecular weight structural foam molding, high-density composite material, polyester sheet-molded material, vinyl-ester sheet-molded material, thermoplastic composite, bulk-molded compound, and high-molecular weight injection molded polyethylene.
- 13. (previously amended) A bumper for mounting on a frame of a vehicle, the bumper comprising:
  - an elongated beam configured to be operatively mounted to the frame of the vehicle;
  - a foam portion extending along a portion of the beam;
- a fascia surrounding the foam portion, the fascia and the foam portion operatively attached to the beam;

the foam portion having a plurality of recesses formed therein, the recesses extending through a predetermined thickness of an inside portion of the foam portion, the recesses abutting the elongated beam;

a non-metallic integrated cylindrical cell matrix disposed with the recesses, the matrix formed of a plurality of circular cells having a longitudinal axis, the cell matrix configured to be releasably removed from the recesses upon separation of the foam portion from the beam to expose the recesses; and

the matrix configured to absorb energy resulting from impact force applied to an external portion of the bumper in a direction generally along the longitudinal axis.

- 14. (previously added) The bumper according to claim 13 wherein the matrix forms an interference fit with the recess.
- 15. (previously added) The bumper according to claim 13 wherein the matrix is secured within the recess with chemical adhesive.
- 16. (previously added) The bumper according to claim 13 wherein the recess extends through the foam for the predetermined distance of about between forty percent to eight-five percent of a thickness of the foam portion.
- 17. (previously added) The bumper according to claim 13 wherein the recess extends through the foam portion for the predetermined distance of about between sixty percent to ninety percent of a thickness of the foam portion.
- 18. (previously added) The bumper according to claim 13 wherein a front portion of the matrix located proximate the elongated beam is substantially flush with a front portion of the foam portion along an interface defined between the beam and the foam portion.
- 19. (previously added) The bumper according to claim 13 wherein the foam portion is formed of low-density foam.
- 20. (previously added) The bumper according to claim 13 wherein the low-density foam has a density of about between two pounds per cubic foot and eight pounds per cubit foot.